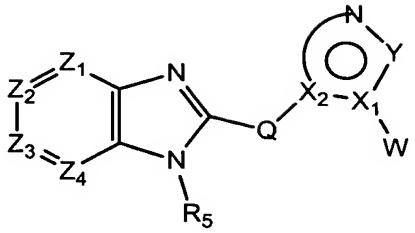
What is claimed is:

1. A compound of the formula:



or a pharmaceutically acceptable salt thereof, wherein:

Z_1 is nitrogen or CR_1;

Z_2 is nitrogen or CR_2;

Z_3 is nitrogen or CR_3;

Z_4 is nitrogen or CR_4;

provided that no more than two of Z_1, Z_2, Z_3, and Z_4 are nitrogen;

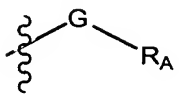
R_1, R_2, R_3, and R_4 are independently selected from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, haloalkyl, and haloalkoxy,

ii) alkyl, alkoxy, cycloalkyl, alkenyl, alkynyl, (cycloalkyl)alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), hydroxyalkyl, aminoalkyl, (R_{10})NHalkyl-, (R_{10})(R_{11})Nalkyl-, alkanoyl, alkoxycarbonyl, (heterocycloalkyl)alkyl, alkylsulfonyl, alkylthio, mono- or dialkylaminocarbonyl, heterocycloalkyl, aryl, and heteroaryl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20},

wherein R_{10} and R_{11} are independently selected at each occurrence from the group consisting of alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, (cycloalkyl)alkyl, aryl, arylalkyl, alkanoyl, and mono and dialkylaminoalkyl; and

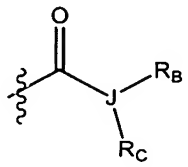
iii) a group of the formula:



where G is a bond, alkyl, -O-, -C(=O)-, or -CH_2C(=O)-, and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20},

iv) a group of the formula



where J is N, CH, or C-alkyl, and

R_B and R_C are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, (cycloalkyl)alkyl, heterocycloalkyl, aryl, arylalkyl, alkanoyl, heteroaryl, and mono and dialkylaminoalkyl,

each of which is optionally substituted by 1 or 2 substituents independently chosen from halogen, hydroxy, cyano, amino, nitro, alkoxy, and alkyl;

R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain:

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, or N-R_D wherein R_D is hydrogen, Ar_1, alkyl, cycloalkyl, heterocycloalkyl, or Ar_1alkyl; wherein Ar_1 is aryl or heteroaryl, each of which is optionally substituted by 1 or 2 substituents independently chosen from halogen, hydroxy, cyano, amino, nitro, alkoxy, and alkyl, and/or

c) one or more substituents R_{20};

v) $-OC(=O)R_E$, $-C(=O)OR_E$, $-C(=O)NH_2$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-S(O)_nR_E$, $-S(O)_nNH_2$, $-S(O)_nNHR_E$, $-S(O)_nNR_ER_F$, $-NHC(=O)R_E$, $-C(=NR_E)R_F$, -HC=N-OH, -HC=N(alkoxy), -HC=N(alkyl), $-NR_EC(=O)R_F$, $-NHS(O)_mR_E$, and $-NR_ES(O)_mR_F$, where m is 0, 1 or 2, and

R_E and R_F are independently selected at each occurrence from alkyl, cycloalkyl, heterocycloalkyl, alkoxy, mono- or dialkylamino, aryl, or heteroaryl each of which is optionally substituted by 1, 2, or 3 of R_{30};

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R_{20} is independently selected at each occurrence from the group consisting of: halogen; hydroxy; nitro; cyano; amino; alkyl; alkoxy optionally substituted with amino or mono- or dialkylamino; cycloalkyl; cycloalkylalkyl; cycloalkylalkoxy; alkenyl; alkynyl; haloalkyl; oxo; haloalkoxy; mono- and dialkylamino; aminoalkyl; and mono- and dialkylaminoalkyl;

R_{30} is independently selected at each occurrence from halogen, hydroxy, nitro, cyano, amino, alkyl, alkoxy optionally substituted with amino or mono- or dialkylamino, cycloalkyl, cycloalkylalkyl, cycloalkylalkoxy, heterocycloalkyl, alkenyl, alkynyl, haloalkyl, haloalkoxy, oxo, mono- and dialkylamino, aminoalkyl, and mono- and dialkylaminoalkyl;

R_5 represents hydrogen or haloalkyl; or

R_5 represents alkyl, cycloalkyl, or (cycloalkyl)alkyl, each of which may contain one or more double or triple bonds, and each of which is optionally substituted with 1, 2, or 3 of R_{30}, or

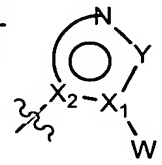
R_5 represents aryl, arylalkyl, heteroaryl, or heteroarylalkyl each of which is optionally substituted with 1, 2, or 3 substituents selected from the group consisting of haloalkyl, amino, $-NH(R_{10})$, $-N(R_{10})(R_{11})$, carboxamido, $(R_{10})NHcarbonyl$, $(R_{10})(R_{11})Ncarbonyl$, halogen, hydroxy, nitro, cyano, amino, alkyl, alkoxy optionally substituted with amino or mono- or dialkylamino, cycloalkyl, cycloalkylalkyl, cycloalkylalkoxy, heterocycloalkyl, alkenyl, alkynyl, haloalkyl, haloalkoxy, aminoalkyl, and mono- and dialkylaminoalkyl;

Q represents $-C(R_6)(R_7)$ or oxygen,

with the proviso that Q is not oxygen when X_2 is nitrogen;

R_6 and R_7 independently represent hydrogen, fluorine, or alkyl;

the group:



represents a 5 to 7 membered heteroaryl or heterocycloalkyl ring containing up to 4 heteroatoms independently selected from nitrogen, sulfur, and oxygen, said 5 to 7 membered heteroaryl or heterocycloalkyl ring is substituted at each carbon atom by R, and substituted at each nitrogen atom available for substitution by R', wherein

R is independently chosen at each occurrence from hydrogen, halogen, amino, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, (cycloalkyl)alkyl, haloalkyl, haloalkoxy, carboxamido, and 3- to 7-membered carbocyclic or heterocyclic groups which are saturated, unsaturated, or aromatic, which may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, alkyl, and alkoxy;

R' is independently chosen at each occurrence from alkyl, hydrogen, cycloalkyl, cycloalkyl(alkyl), and 3- to 7-membered carbocyclic or heterocyclic groups which are saturated, unsaturated, or aromatic, which 3- to 7-membered carbocyclic or heterocyclic groups are optionally substituted with one or more substituents independently selected from halogen, oxo, hydroxy, alkyl, and alkoxy;

X_1 and X_2 independently represent nitrogen, carbon or CH;

Y is nitrogen, oxygen, carbon, -CH-, $-CH_2-$, or absent; and

W represents aryl or heteroaryl, wherein the aryl or heteroaryl group is optionally substituted with up to 4 groups

independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, and $-S(O)_mR_E$, $-OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

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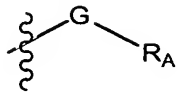
2. A compound or salt according to Claim 1, wherein R_1, R_2, R_3, and R_4 are independently selected from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

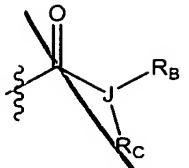
ii) (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_2-C_6)alkenyl, alkynyl, ((C_3-C_8)cycloalkyl)(C_1-C_4)alkyl, $-NH(R_{10})$, $-N(R_{10})(R_{11})$, hydroxy(C_1-C_6)alkyl, amino(C_1-C_6)alkyl, (R_{10})NH (C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (C_1-C_6)alkanoyl, (C_1-C_6)alkoxycarbonyl, (C_1-C_6)alkylsulfonyl, (C_1-C_6)alkylthio, mono- or di(C_1-C_6)alkylaminocarbonyl, heterocycloalkyl, (heterocycloalkyl)C_1-C_4alkyl, aryl, and heteroaryl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}, wherein R_{10} and R_{11} are independently selected from the group consisting of (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkylalkyl, aryl, aryl(C_1-C_6)alkyl, (C_1-C_6)alkanoyl, and mono and di(C_1-C_6)alkylaminoalkyl;

iii) a group of the formula:



where G is (C_1-C_6)alkyl, -O-, -C(=O)-, or $-CH_2C(=O)-$, and R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring consisting of from 3 to 8 ring atoms, and each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O; said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}, and

iv) a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8cycloalkyl) (C_1-C_4)alkyl, heterocycloalkyl, aryl, aryl(C_1-C_4)alkyl, (C_1-C_6)alkanoyl, heteroaryl, and mono and di(C_1-C_6)alkylamino(C_1-C_6)alkyl, each of which is optionally substituted by 1 or 2 substituents independently chosen from halogen, hydroxy, cyano, amino, nitro, C_1-C_6alkoxy, and C_1-C_6alkyl; or

R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds;

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen, Ar_1, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, heterocycloalkyl, or Ar_1(C_1-C_6)alkyl; wherein Ar_1 is aryl or heteroaryl, each of which is optionally substituted by 1 or 2 substituents independently chosen from halogen, hydroxy, cyano, amino, nitro, C_1-C_6alkoxy, and C_1-C_6alkyl; and/or

c) one or more substituents R_{20};

v) $-OC(=O)R_E$, $-C(=O)OR_E$, $-C(=O)NH_2$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-S(O)_nR_E$, $-S(O)_nNH_2$, $-S(O)_nNHR_E$, $-S(O)_nNR_ER_F$, $-NHC(=O)R_E$, $-C(=NR_E)R_F$, -HC=N-OH, -HC=N(C_1-C_6alkoxy), -HC=N(C_1-C_6alkyl), $-NR_EC(=O)R_F$, $-NHS(O)_mR_E$, and $-NR_ES(O)_mR_F$, where m is 0, 1 or 2, and

R_E and R_F are independently selected at each occurrence from (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, heterocycloalkyl, (C_1-C_6)alkoxy, mono- and di(C_1-C_6)alkylamino, aryl, and

heteroaryl each of which is optionally substituted by 1, 2, or 3 of R_{30};

R_{20} is independently selected at each occurrence from the group consisting of halogen; hydroxy; nitro; cyano; amino; (C_1-C_6)alkyl; (C_1-C_6)alkoxy optionally substituted with amino or mono- or di(C_1-C_6)alkylamino; (C_3-C_8)cycloalkyl; (C_3-C_8)cycloalkyl(C_1-C_4)alkyl; (C_3-C_8)cycloalkyl(C_1-C_4)alkoxy; (C_2-C_6)alkenyl; (C_2-C_6)alkynyl; halo(C_1-C_6)alkyl; halo(C_1-C_6)alkoxy; oxo; mono- and di(C_1-C_6)alkylamino; amino(C_1-C_6)alkyl; and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_{30} is independently selected at each occurrence from halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy optionally substituted with amino or mono- or di(C_1-C_6)alkylamino, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_4)alkyl, (C_3-C_8)cycloalkyl(C_1-C_4)alkoxy, heterocycloalkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, oxo, mono- and di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents hydrogen or halo(C_1-C_6)alkyl; or

R_5 represents (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, or $(C_3-C_8$cycloalkyl$)(C_1-C_4)$alkyl, each of which may contain one or more double or triple bonds, and each of which is optionally substituted with 1, 2, or 3 of R_{30} or

R_5 represents aryl, aryl(C_1-C_4)alkyl, heteroaryl, or heteroaryl(C_1-C_4)alkyl each of which is optionally substituted with 1, 2, or 3 substituents selected from the group consisting of:

halo(C_1-C_6)alkyl, amino, NH(R_{10}), N$(R_{10})(R_{11})$, carboxamido, NH(R_{10})carbonyl, N$(R_{10})(R_{11})$carbonyl, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy optionally

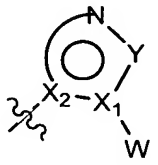
substituted with amino or mono- or di(C_1-C_6)alkylamino, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_4)alkyl, (C_3-C_8)cycloalkyl(C_1-C_4)alkoxy, heterocyclo(C_1-C_4)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

Q represents $-C(R_6)(R_7)$ or oxygen,

with the proviso that Q is not oxygen when X_2 is nitrogen;

R_6 and R_7 independently represent hydrogen, fluorine, or C_1-C_6alkyl;

the group:



represents a 5 to 7 membered heteroaryl or heterocycloalkyl ring containing up to 4 heteroatoms selected from nitrogen, sulfur, and oxygen, said 5 to 7 membered heteroaryl or heterocycloalkyl ring is substituted at each carbon atom by R, and is substituted at each nitrogen atom available for substitution by R', wherein

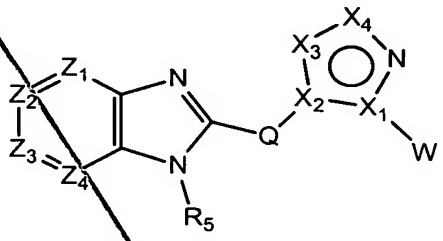
R is independently chosen at each occurrence from hydrogen, halogen, amino, C_1-C_6alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, C_1-C_6alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8cycloalkyl)(C_1-C_4)alkyl, halo(C_1-C_6)alkyl, haloalkoxy, carboxamido, and 3- to 7-membered carbocyclic or heterocyclic groups which are saturated, unsaturated, or aromatic, which may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, C_{1-4}alkyl, and $-O(C_{1-4}$alkyl);

R' is independently chosen at each occurrence from hydrogen, C_1-C_6alkyl, C_3-C_8cycloalkyl, C_3-C_8cycloalkyl(C_1-C_4alkyl), and 3- to 7-membered carbocyclic or heterocyclic groups

which are saturated, unsaturated, or aromatic, which 3- to 7-membered carbocyclic or heterocyclic groups are optionally substituted with one or more substituents independently selected from halogen, oxo, hydroxy, C_{1-4}alkyl, and -O(C_{1-4}alkyl); and

X_1, X_2, W, and Y are as defined in Claim 1.

3. A compound or salt according to Claim 2 of the formula:



wherein Z_1, Z_2, Z_3, Z_4, R_5, Q, X_1, X_2, and W are as defined in Claim 2;

X_3 and X_4 are independently selected from the group consisting of carbon, CR, N, O, S, NH, and N(C_1-C_6)alkyl;

provided that at least one of X_1, X_2, X_3, and X_4 is carbon or CR, wherein

R is independently chosen at each occurrence from hydrogen, halogen, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, carboxamido, and 3- to 7-membered carbocyclic or heterocyclic groups which are saturated, unsaturated, or aromatic, which may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, C_{1-4}alkyl, and -O(C_{1-4}alkyl).

4. A compound or salt according to Claim 1 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; and Z_4 is CR_4.

5. A compound or salt according to Claim 2 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; and Z_4 is CR_4.

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6. A compound or salt according to Claim 3 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; and Z_4 is CR_4.

7. A compound or salt according to Claim 6, wherein X_2 is carbon; and Q is oxygen.

8. A compound or salt according to Claim 6, wherein X_2 is N; and Q is $C(R_6)(R_7)$.

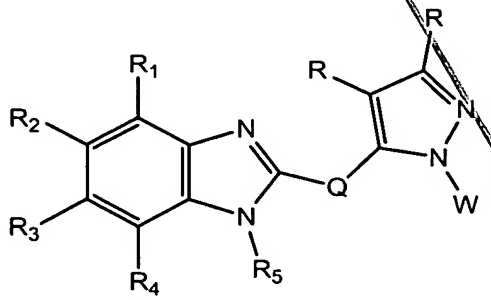
9. A compound or salt according to Claim 6, wherein X_2 is carbon; and Q is $C(R_6)(R_7)$.

10. A compound or salt according to Claim 6, wherein X_1 is carbon; X_2 is N; and Q is $C(R_6)(R_7)$.

11. A compound or salt according to Claim 6, wherein X_1 is nitrogen; X_2 is carbon; and Q is $C(R_6)(R_7)$.

12. A compound or salt according to Claim 6, wherein Q is $C(R_6)(R_7)$.

13. A compound or salt according to Claim 6 of the formula



wherein R, R_1, R_2, R_3, R_4, R_5, Q, and W are as defined in Claim 6.

14. A compound or salt according to Claim 13 wherein Q is $C(R_6)(R_7)$.

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15. A compound or salt according to Claim 14, wherein:

R is independently selected at each occurrence from the group consisting of

i) hydrogen, halogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_1-C_6)alkoxy, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, and

ii) phenyl and pyridyl each of which is optionally substituted with up to 3 substituents independently chosen from halogen, hydroxy, C_1-C_4alkyl, and -O(C_1-C_4alkyl);

R_1, R_2, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, heterocycloalkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents hydrogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, phenyl, benzyl, thiophenyl, thiazoyl, pyridyl, imidazolyl, pyrazolyl, or pyrimidinyl;

R_6 and R_7 independently represent hydrogen, fluorine, or C_1-C_6 alkyl; and

W represents phenyl, thienyl, thiazoyl, pyridyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, isoxazolyl, or pyrimidinyl, each of which is optionally substituted with up to 4 independently selected R_{30} groups.

16. A compound or salt according to Claim 14, wherein:

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;

R_1, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents (C_1-C_6)alkyl;

Q is CH_2; and

W represents phenyl, furanyl, thienyl, thiazoyl, pyridyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, isoxazolyl, pyrimidinyl, benzimidazolyl, quinolinyl, isoquinolinyl each of which is optionally substituted with up to 4 R_{30} groups.

17. A compound or salt according to Claim 16 wherein

R_1, R_3, and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and

W is phenyl, pyridyl, or thiazolyl, each which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

18. A compound or salt according to Claim 17, wherein W is 2-thiazolyl, 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

19. A compound or salt according to Claim 17, wherein R, R_1, and R_4 are hydrogen.

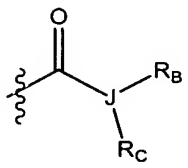
20. A compound or salt according to Claim 17, wherein R_5 is ethyl or n-propyl.

21. A compound or salt according to Claim 17 wherein R_2 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl)C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl)alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

22. A compound or salt according to Claim 17 wherein R_2 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, (C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

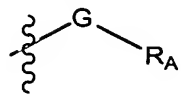
R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl;

c) one or more substituents R_{20}.

23. A compound or salt according to Claim 17 wherein R_2 is a group of the formula:



where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

24. A compound or salt according to Claim 23 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

25. A compound or salt according to Claim 14, wherein:

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and $(C_1\text{-}C_2)$alkyl;

R_1, R_2, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, $(C_1\text{-}C_6)$alkyl, $(C_1\text{-}C_6)$alkoxy, $(C_3\text{-}C_8)$cycloalkyl, $(C_3\text{-}C_8)$cycloalkyl$(C_1\text{-}C_6)$alkyl, halo$(C_1\text{-}C_6)$alkyl, halo$(C_1\text{-}C_6)$alkoxy, mono or di$(C_1\text{-}C_6)$alkylamino, amino$(C_1\text{-}C_6)$alkyl, and mono- and di$(C_1\text{-}C_6)$alkylamino$(C_1\text{-}C_6)$alkyl;

R_5 represents $(C_1\text{-}C_6)$alkyl;

Q is CH_2; and

W represents phenyl, furanyl, thienyl, thiazoyl, pyridyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, isoxazolyl, pyrimidinyl, benzimidazolyl, quinolinyl, isoquinolinyl each of which is optionally substituted with up to 4 R_{30} groups.

26. A compound or salt according to Claim 25 wherein

R_1, R_2, and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, $C_1\text{-}C_2$ alkyl, and cyano; and

W is phenyl, pyridyl, or thiazolyl, each of which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2 alkyl, and C_1-C_2 alkoxy.

27. A compound or salt according to Claim 26, wherein W is 2-thiazolyl, 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

28. A compound or salt according to Claim 26, wherein R, R_1, and R_4 are hydrogen.

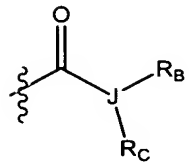
29. A compound or salt according to Claim 26, wherein R_5 is ethyl or n-propyl.

30. A compound or salt according to Claim 26 wherein R_3 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl)C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

31. A compound or salt according to Claim 26 wherein R_3 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

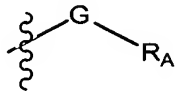
R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl;

c) one or more substituents R_{20}.

32. A compound or salt according to Claim 26 wherein R_3 is a group of the formula:



where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

33. A compound or salt according to Claim 32 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

34. A compound or salt according to Claim 26 wherein R_3 is -HC=N-OH or -HC=N(C_1-C_6 alkoxy).

35. A compound or salt according to Claim 6 of the formula

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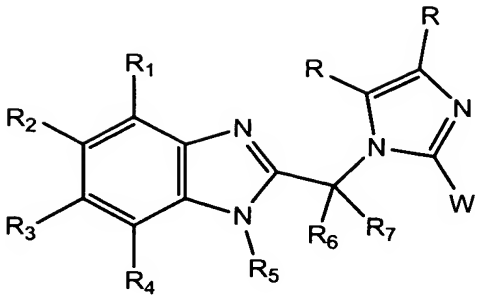


wherein R, R_1, R_2, R_3, R_4, R_5, R_6, R_7, and W are as defined in Claim 6.

36. A compound or salt according to Claim 35, wherein:

R is independently selected at each occurrence from the group consisting of

i) hydrogen, halogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_1-C_6)alkoxy, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, and

ii) phenyl and pyridyl each of which is optionally substituted with up to 3 substituents independently chosen from halogen, hydroxy, C_{1-4}alkyl, and -O(C_{1-4}alkyl);

R_1, R_2, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, heterocycloalkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents hydrogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, phenyl, benzyl, thiophenyl, thiazoyl, pyridyl, imidazolyl, pyrazolyl, or pyrimidinyl;

R_6 and R_7 independently represent hydrogen, fluorine, or C_1-C_6 alkyl; and

W represents phenyl, thienyl, thiazoyl, pyridyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, isoxazolyl, or

pyrimidinyl, each of which is optionally substituted with up to 4 R_{30} groups.

37. A compound or salt according to Claim 35, wherein:
W represents a 6-membered aryl or heteroaryl groups, wherein the 6-membered aryl or heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, $-S(O)_mR_E$, and $-OR_E$; and m is 0, 1, or 2.

38. A compound or salt according to Claim 35, wherein:
W represents a 5-membered heteroaryl group, wherein the 5-membered heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, $-S(O)_mR_E$, and $-OR_E$, and m is 0, 1, or 2.

39. A compound or salt according to Claim 35, wherein:
R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;
R_1, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;
R_5 represents (C_1-C_6)alkyl;
R_6 and R_7 are hydrogen; and
W represents phenyl, furanyl, thienyl, thiazoyl, pyridyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, isoxazolyl, pyrimidinyl, benzimidazolyl, quinolinyl, isoquinolinyl each of which is optionally substituted with up to 4 R_{30} groups.

40. A compound or salt according to Claim 39 wherein R_1, R_3, and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and W is phenyl, pyridyl, or thiazolyl, each which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

41. A compound or salt according to Claim 40, wherein W is 2-thiazolyl, 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

42. A compound or salt according to Claim 40, wherein R, R_1, and R_4 are hydrogen.

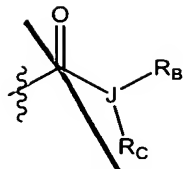
43. A compound or salt according to Claim 40, wherein R_5 is ethyl or n-propyl.

44. A compound or salt according to Claim 40 wherein R_2 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl) C_1-C_4alkyl, -$NH(R_{10})$, -$N(R_{10})(R_{11})$, $(R_{10})NH(C_1$-$C_6)$alkyl, $(R_{10})(R_{11})N(C_1$-$C_6)$alkyl, (heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

45. A compound or salt according to Claim 40 wherein R_2 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, (C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

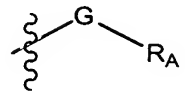
R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl;

c) one or more substituents R_{20}.

46. A compound or salt according to Claim 40 wherein R_2 is a group of the formula:



where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

47. A compound or salt according to Claim 46 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

48. A compound or salt according to Claim 40 wherein

R_2 is -HC=N-OH or -HC=N(C_1-C_6alkoxy).

49. A compound or salt according to Claim 35, wherein:
R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;
R_1, R_2, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;
R_5 represents (C_1-C_6)alkyl;
R_6 and R_7 are hydrogen; and
W represents phenyl, furanyl, thienyl, thiazoyl, pyridyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, isoxazolyl, pyrimidinyl, benzimidazolyl, quinolinyl, isoquinolinyl each of which is optionally substituted with up to 4 R_{30} groups.

50. A compound or salt according to Claim 49 wherein
R_1, R_2, and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and
W is phenyl, pyridyl, or thiazolyl, each which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

51. A compound or salt according to Claim 50, wherein W is 2-thiazolyl, 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

52. A compound or salt according to Claim 50, wherein R, R_1, and R_4 are hydrogen.

53. A compound or salt according to Claim 50, wherein R_5 is ethyl or n-propyl.

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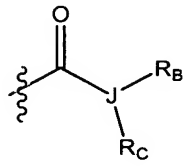
54. A compound or salt according to Claim 50 wherein R_3 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl)C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl) C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

55. A compound or salt according to Claim 50 wherein R_3 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, (C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

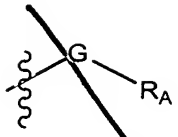
R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl;

c) one or more substituents R_{20}.

56. A compound or salt according to Claim 50 wherein R_3 is a group of the formula:



where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

57. A compound or salt according to Claim 56 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

58. A compound or salt according to Claim 50 wherein R_3 is -HC=N-OH or -HC=N(C_1-C_6alkoxy).

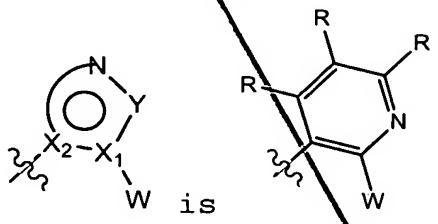
59. A compound or salt according to Claim 3 wherein: Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is carbon; X_2 is nitrogen; X_3 is CR; X_4 is nitrogen; and Q is $C(R_6)(R_7)$.

60. A compound or salt according to Claim 3 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is carbon; X_2 is nitrogen; X_3 is nitrogen; X_4 is CR; and Q is $C(R_6)(R_7)$.

61. A compound or salt according to Claim 3 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is carbon; X_2 is carbon; X_3 is S; and X_4 is CR.

62. A compound or salt according to Claim 61 wherein Q is $C(R_6)(R_7)$.

63. A compound or salt according to Claim 2, wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; and the group



is

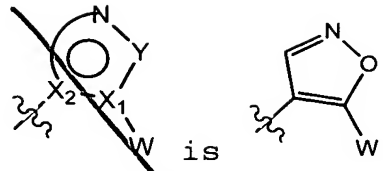
64. A compound or salt according to Claim 63 wherein Q is $C(R_6)(R_7)$.

65. A compound or salt according to Claim 3 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is nitrogen; X_2 is carbon; X_3 is nitrogen; and X_4 is CR.

66. A compound or salt according to Claim 3 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is carbon; X_2 is carbon; X_3 is NH or $N(C_1\text{-}C_6alkyl)$; and X_4 is CR.

67. A compound or salt according to Claim 3 wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is carbon; X_2 is nitrogen; X_3 is nitrogen; X_4 is nitrogen; and Q is $C(R_6)(R_7)$.

68. A compound or salt according to Claim 2, wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; and the group



is .

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69. A compound or salt according to Claim 3, wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is nitrogen; X_2 is carbon; X_3 is CR; and X_4 is nitrogen.

70. A compound or salt according to Claim 69 wherein Q is $C(R_6)(R_7)$.

71. A compound or salt according to Claim 3, wherein Z_1 is CR_1; Z_2 is CR_2; Z_3 is CR_3; Z_4 is CR_4; X_1 is nitrogen; X_2 is carbon; X_3 is nitrogen; and X_4 is nitrogen.

72. A compound or salt according to Claim 71 wherein Q is $C(R_6)(R_7)$.

73. A compound or salt according to Claim 1 wherein one and only one of Z_1, Z_2, Z_3, and Z_4 is nitrogen.

74. A compound or salt according to Claim 2 wherein one and only one of Z_1, Z_2, Z_3, and Z_4 is nitrogen.

75. A compound or salt according to Claim 3 wherein one and only one of Z_1, Z_2, Z_3, and Z_4 is nitrogen.

76. A compound or salt according to Claim 75 wherein either Z_2 or Z_3 is nitrogen; and
W represents a 5-membered heteroaryl group, the 5-membered heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, -

$C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, and $-S(O)_mR_E$, $-OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

77. A compound or salt according to Claim 76, wherein X_2 is carbon; and Q is oxygen.

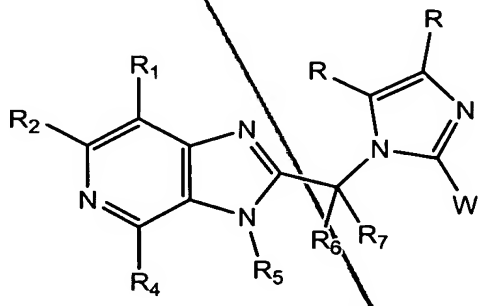
78. A compound or salt according to Claim 76, wherein X_2 is N; and Q is $C(R_6)(R_7)$.

79. A compound or salt according to Claim 76, wherein X_2 is carbon; and Q is $C(R_6)(R_7)$.

80. A compound or salt according to Claim 76, wherein X_1 is carbon; X_2 is N; and Q is $C(R_6)(R_7)$.

81. A compound or salt according to Claim 76, wherein X_1 is nitrogen; X_2 is carbon; and Q is $C(R_6)(R_7)$.

82. A compound or salt according to Claim 76 of the formula



wherein R, R_1, R_2, R_4, R_5, R_6, R_7, and W are as defined in Claim 76.

83. A compound or salt according to Claim 82, wherein:
R is independently selected at each occurrence from the group consisting of

i) hydrogen, halogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_1-C_6)alkoxy, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, and

ii) phenyl and pyridyl each of which is optionally substituted with up to 3 substituents independently chosen from halogen, hydroxy, C_{1-4}alkyl, and -O(C_{1-4}alkyl);

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R_1, R_2, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, heterocycloalkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents hydrogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, phenyl, benzyl, thiophenyl, thiazoyl, pyridyl, imidazolyl, pyrazolyl, or pyrimidinyl;

R_6 and R_7 independently represent hydrogen, fluorine, or C_1-C_6 alkyl; and

W represents thienyl, thiazolyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, or isoxazolyl each of which is optionally substituted with up to 4 R_{30} groups.

84. A compound or salt according to Claim 82, wherein:

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;

R_1 and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents (C_1-C_6)alkyl;

R_6 and R_7 are hydrogen; and

W represents furanyl, thienyl, thiazoyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, or isoxazolyl, each of which is optionally substituted with up to 4 R_{30} groups.

A' cont

85. A compound or salt according to Claim 84 wherein R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and
W is thiazolyl which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

86. A compound or salt according to Claim 85, wherein W is 2-thiazolyl.

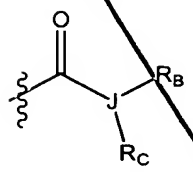
87. A compound or salt according to Claim 85, wherein R, R_1, and R_4 are hydrogen.

88. A compound or salt according to Claim 85, wherein R_5 is ethyl or n-propyl.

89. A compound or salt according to Claim 85 wherein R_2 is chosen from
i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,
ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_1-C_6alkynyl, (C_3-C_8cycloalkyl)C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl) C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

90. A compound or salt according to Claim 85 wherein R_2 is chosen from hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy.

91. A compound or salt according to Claim 85 wherein R_2 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, (C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

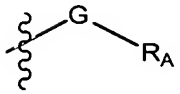
R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl; and/or

c) one or more substituents R_{20}.

92. A compound or salt according to Claim 85 wherein R_2 is a group of the formula:



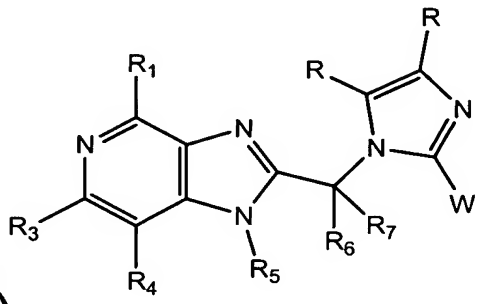
where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

93. A compound or salt according to Claim 92 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

94. A compound or salt according to Claim 85 wherein R_2 is -HC=N-OH or -HC=N(C_1-C_6alkoxy).

95. A compound or salt according to Claim 76 of the formula



wherein R, R_1, R_2, R_4, R_5, R_6, R_7, and W are as defined in Claim 76.

96. A compound or salt according to Claim 75, wherein:

R is independently selected at each occurrence from the group consisting of

i) hydrogen, halogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_1-C_6)alkoxy, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, and

ii) phenyl and pyridyl each of which is optionally substituted with up to 3 substituents independently chosen from halogen, hydroxy, C_{1-4}alkyl, and -O(C_{1-4}alkyl);

R_1, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, heterocycloalkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents hydrogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, phenyl, benzyl, thiophenyl, thiazoyl, pyridyl, imidazolyl, pyrazolyl, or pyrimidinyl;

R_6 and R_7 independently represent hydrogen, fluorine, or C_1-C_6 alkyl; and

W represents thienyl, thiazoyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, or isoxazolyl each of which is optionally substituted with up to 4 R_{30} groups.

A' cont

97. A compound or salt according to Claim 95, wherein:

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and $(C_1$-$C_2)$alkyl;

R_1 and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, $(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkoxy, $(C_3$-$C_8)$cycloalkyl, $(C_3$-$C_8)$cycloalkyl$(C_1$-$C_6)$alkyl, halo$(C_1$-$C_6)$alkyl, halo$(C_1$-$C_6)$alkoxy, mono or di$(C_1$-$C_6)$alkylamino, amino$(C_1$-$C_6)$alkyl, and mono- and di$(C_1$-$C_6)$alkylamino$(C_1$-$C_6)$alkyl;

R_5 represents $(C_1$-$C_6)$alkyl;

R_6 and R_7 are hydrogen; and

W represents furanyl, thienyl, thiazoyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, or isoxazolyl, each of which is optionally substituted with up to 4 R_{30} groups.

98. A compound or salt according to Claim 97 wherein

R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and

W is thiazolyl which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

99. A compound or salt according to Claim 98, wherein W is 2-thiazolyl.

100. A compound or salt according to Claim 98, wherein R, R_1, and R_4 are hydrogen.

101. A compound or salt according to Claim 98, wherein R_5 is ethyl or n-propyl.

A1 cont

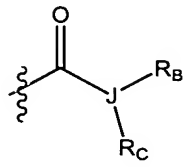
102. A compound or salt according to Claim 98 wherein R_3 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy, and

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl) C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

103. A compound or salt according to Claim 102 wherein R_3 is chosen from hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy.

104. A compound or salt according to Claim 98 wherein R_3 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, (C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

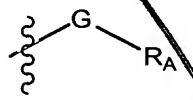
R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl; and/or

c) one or more substituents R_{20}.

105. A compound or salt according to Claim 98 wherein R_3 is a group of the formula:



where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

106. A compound or salt according to Claim 105 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

107. A compound or salt according to Claim 98 wherein R_2 is -HC=N-OH or -HC=N(C_1-C_6alkoxy).

108. A compound or salt according to Claim 76 wherein: X_1 is carbon; X_2 is nitrogen; X_3 is CR; and X_4 is nitrogen; and Q is $C(R_6)(R_7)$.

109. A compound or salt according to Claim 76 wherein X_1 is carbon; X_2 is nitrogen; X_3 is nitrogen; X_4 is CR; and Q is $C(R_6)(R_7)$.

110. A compound or salt according to Claim 76 wherein X_1 is carbon; X_2 is carbon; X_3 is S; and X_4 is CR.

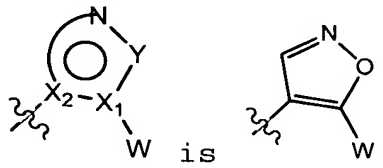
111. A compound or salt according to Claim 110 wherein Q is $C(R_6)(R_7)$.

112. A compound or salt according to Claim 76 wherein X_1 is nitrogen; X_2 is carbon; X_3 is nitrogen; and X_4 is CR.

113. A compound or salt according to Claim 76 wherein X_1 is carbon; X_2 is carbon; X_3 is NH or $N(C_1\text{-}C_6\text{alkyl})$; and X_4 is CR.

114. A compound or salt according to Claim 76 wherein X_1 is carbon; X_2 is nitrogen; X_3 is nitrogen; X_4 is nitrogen; and Q is $C(R_6)(R_7)$.

115. A compound or salt according to Claim 74, wherein either Z_2 or Z_3 is nitrogen;
and the group



is ; and

W represents a 5-membered heteroaryl group, the 5-membered heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, and $-S(O)_mR_E$, $-OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

116. A compound or salt according to Claim 76, wherein X_1 is nitrogen; X_2 is carbon; X_3 is CR; and X_4 is nitrogen.

117. A compound or salt according to Claim 116 wherein Q is $C(R_6)(R_7)$.

118. A compound or salt according to Claim 76, wherein

X_1 is carbon; X_2 is carbon; X_3 is NH or NCH_3; and X_4 is CR.

119. A compound or salt according to Claim 76, wherein X_1 is nitrogen; X_2 is carbon; X_3 is nitrogen; and X_4 is nitrogen.

120. A compound or salt according to Claim 119 wherein Q is $C(R_6)(R_7)$.

121. A compound or salt according to Claim 75 wherein either Z_2 or Z_3 is nitrogen; and

W represents a 6-membered aryl or heteroaryl group, the 6-membered aryl or heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, and $-S(O)_mR_E$, $-OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

122. A compound or salt according to Claim 121, wherein X_2 is carbon; and Q is oxygen.

123. A compound or salt according to Claim 121, wherein X_2 is N; and Q is $C(R_6)(R_7)$.

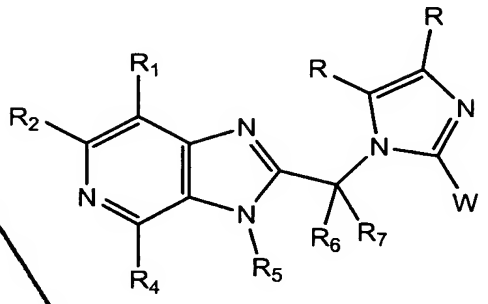
124. A compound or salt according to Claim 121, wherein X_2 is carbon; and Q is $C(R_6)(R_7)$.

125. A compound or salt according to Claim 121, wherein X_1 is carbon; X_2 is N; and Q is $C(R_6)(R_7)$.

126. A compound or salt according to Claim 121, wherein X_1 is nitrogen; X_2 is carbon; and Q is $C(R_6)(R_7)$.

127. A compound or salt according to Claim 121, wherein Q is $C(R_6)(R_7)$.

128. A compound or salt according to Claim 121 of the formula



wherein R, R_1, R_2, R_4, R_5, R_6, R_7, and W are as defined in Claim 121.

129. A compound or salt according to Claim 128, wherein:

R is independently selected at each occurrence from the group consisting of

i) hydrogen, halogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_1-C_6)alkoxy, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, and

ii) phenyl and pyridyl each of which is optionally substituted with up to 3 substituents independently chosen from halogen, hydroxy, C_{1-4}alkyl, and $-O(C_{1-4}$alkyl$)$;

R_1, R_2, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, heterocycloalkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents hydrogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, phenyl, benzyl, thiophenyl, thiazoyl, pyridyl, imidazolyl, pyrazolyl, or pyrimidinyl;

R_6 and R_7 independently represent hydrogen, fluorine, or C_1-C_6 alkyl; and

W represents phenyl, pyrimidinyl, pyridyl, pyridizinyl, or pyrazinyl, each of which is optionally substituted with up to 4 R_{30} groups.

130. A compound or salt according to Claim 128, wherein:

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and $(C_1$-$C_2)$alkyl;

R_1 and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, $(C_1$-$C_6)$alkyl, $(C_1$-$C_6)$alkoxy, $(C_3$-$C_8)$cycloalkyl, $(C_3$-$C_8)$cycloalkyl$(C_1$-$C_6)$alkyl, halo$(C_1$-$C_6)$alkyl, halo$(C_1$-$C_6)$alkoxy, mono or di$(C_1$-$C_6)$alkylamino, amino$(C_1$-$C_6)$alkyl, and mono- and di$(C_1$-$C_6)$alkylamino$(C_1$-$C_6)$alkyl;

R_5 represents $(C_1$-$C_6)$alkyl;

R_6 and R_7 are hydrogen; and

W represents phenyl, pyrimidinyl, pyridyl, pyridizinyl, or pyrazinyl each of which is optionally substituted with up to 4 R_{30} groups.

131. A compound or salt according to Claim 130 wherein

R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and

W is phenyl or pyridyl, each of which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

132. A compound or salt according to Claim 131, wherein W is 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

133. A compound or salt according to Claim 131, wherein R, R_1, and R_4 are hydrogen.

134. A compound or salt according to Claim 131, wherein R_5 is ethyl or n-propyl.

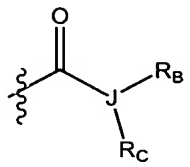
135. A compound or salt according to Claim 131 wherein R_2 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy, and

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl)C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

136. A compound or salt according to Claim 135 wherein R_2 is chosen from hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy.

137. A compound or salt according to Claim 131 wherein R_2 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, (C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

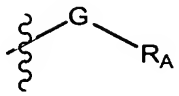
a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl;

c) one or more substituents R_{20}.

Q1 cont

138. A compound or salt according to Claim 131 wherein R_2 is a group of the formula:



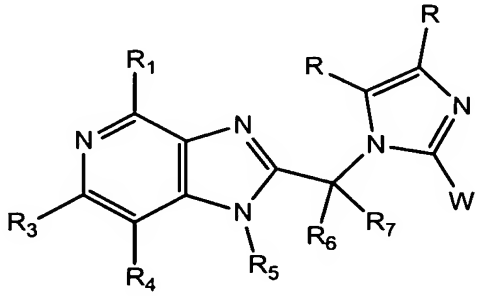
where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

139. A compound or salt according to Claim 138 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

140. A compound or salt according to Claim 131 wherein R_2 is -HC=N-OH or -HC=N(C_1-C_6alkoxy).

141. A compound or salt according to Claim 121 of the formula



wherein R, R_1, R_2, R_4, R_5, R_6, R_7, and W are as defined in Claim 141.

142. A compound or salt according to Claim 141, wherein:

R is independently selected at each occurrence from the group consisting of

i) hydrogen, halogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_1-C_6)alkoxy, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, and

ii) phenyl and pyridyl each of which is optionally substituted with up to 3 substituents independently chosen from halogen, hydroxy, C_{1-4}alkyl, and -O(C_{1-4}alkyl);

R_1, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, heterocycloalkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents hydrogen, (C_1-C_6)alkyl, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, phenyl, benzyl, thiophenyl, thiazoyl, pyridyl, imidazolyl, pyrazolyl, or pyrimidinyl;

R_6 and R_7 independently represent hydrogen, fluorine, or C_1-C_6 alkyl; and

W represents phenyl, pyridyl, pyridizinyl, pyrimidinyl, or pyrazinyl, each of which is optionally substituted with up to 4 R_{30} groups.

143. A compound or salt according to Claim 142, wherein:

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;

R_1 and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy,

(C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents (C_1-C_6)alkyl;

R_6 and R_7 are hydrogen; and

W represents phenyl, pyridyl, pyridizinyl, pyrimidinyl, or pyrazinyl, each of which is optionally substituted with up to 4 R_{30} groups.

144. A compound or salt according to Claim 143 wherein R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and

W is phenyl or pyridyl, each of which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

145. A compound or salt according to Claim 144, wherein W is 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

146. A compound or salt according to Claim 144, wherein R, R_1 and R_4 are hydrogen.

147. A compound or salt according to Claim 144, wherein R_5 is ethyl or n-propyl.

148. A compound or salt according to Claim 144 wherein R_3 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

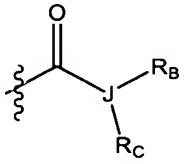
ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, $(C_3-C_8$cycloalkyl$)C_1-C_4$alkyl, $-NH(R_{10})$,

$-N(R_{10})(R_{11})$, $(R_{10})NH(C_1-C_6)$alkyl, $(R_{10})(R_{11})N(C_1-C_6)$alkyl, (heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

a' cont

149. A compound or salt according to Claim 148 wherein R_3 is chosen from hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy.

150. A compound or salt according to Claim 144 wherein R_3 is a group of the formula



where J is N, CH, or C-(C_1-C_6)alkyl and

R_B and R_C are independently selected from the group consisting of hydrogen, (C_1-C_6)alkyl, (C_2-C_6)alkenyl, (C_2-C_6)alkynyl, C_3-C_8)cycloalkyl, and (C_3-C_8cycloalkyl) (C_1-C_4)alkyl; or

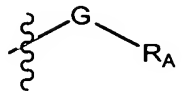
R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, and N-R_D wherein R_D is hydrogen or (C_1-C_6)alkyl;

c) one or more substituents R_{20}.

151. A compound or salt according to Claim 144 wherein R_3 is a group of the formula:



where G is a bond or C_1-C_2alkyl; and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially

unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}.

A' cont

152. A compound or salt according to Claim 151 wherein R_A is chosen from phenyl, pyrrolyl, pyrazolyl, thiazolyl, isoxazolyl, triazolyl, tetrazolyl, oxadiazolyl, and oxazolyl each of which is is optionally substituted with 1, 2, 3, or 4 of R_{20}.

153. A compound or salt according to Claim 144 wherein R_2 is -HC=N-OH or -HC=N(C_1-C_6alkoxy).

154. A compound or salt according to Claim 121 wherein: X_1 is carbon; X_2 is nitrogen; X_3 is CR; X_4 is nitrogen; and Q is $C(R_6)(R_7)$.

155. A compound or salt according to Claim 121 wherein X_1 is carbon; X_2 is nitrogen; X_3 is nitrogen; X_4 is CR; and Q is $C(R_6)(R_7)$.

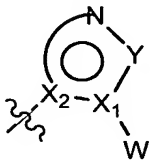
156. A compound or salt according to Claim 121 wherein X_1 is carbon; X_2 is carbon; X_3 is S; X_4 is CR; and Q is $C(R_6)(R_7)$.

157. A compound or salt according to Claim 156 wherein X_1 is nitrogen; X_2 is carbon; X_3 is nitrogen; and X_4 is CR.

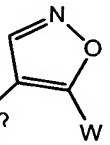
158. A compound or salt according to Claim 121 wherein X_1 is carbon; X_2 is carbon; X_3 is NH or N(C_1-C_6alkyl); and X_4 is CR.

159. A compound or salt according to Claim 121 wherein X_1 is carbon; X_2 is nitrogen; X_3 is nitrogen; X_4 is nitrogen; and Q is $C(R_6)(R_7)$.

160. A compound or salt according to Claim 119, wherein either Z_2 or Z_3 is nitrogen;
and the group



W is



; and

W represents a 6-membered aryl or heteroaryl group, wherein the 6-membered aryl or heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, and $-S(O)_mR_E$, $-OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

161. A compound or salt according to Claim 121, wherein X_1 is nitrogen; X_2 is carbon; X_3 is CR; and X_4 is nitrogen.

162. A compound or salt according to Claim 161 wherein Q is $C(R_6)(R_7)$.

163. A compound or salt according to Claim 121, wherein X_1 is nitrogen; X_2 is carbon; X_3 is nitrogen; and X_4 is nitrogen.

164. A compound or salt according to Claim 163 wherein Q is $C(R_6)(R_7)$.

165. A pharmaceutical composition comprising a compound or salt according to Claim 1 combined with at least one pharmaceutically acceptable carrier or excipient.

166. A method for altering the signal-transducing activity of a $GABA_A$ receptor, said method comprising contacting a cell expressing such a receptor with an amount of a compound or salt according to Claim 1 sufficient to detectably alter the

electrophysiology of the cell, wherein a detectable alteration of the electrophysiology of the cell indicates an alteration of the signal-transducing activity of $GABA_A$ receptors.

Q' cont

167. A method for altering the signal-transducing activity of a $GABA_A$ receptor, said method comprising contacting a cell expressing such receptors with an amount of a compound or salt according to Claim 1 to detectably alter the chloride conductance in vitro of cell expressing $GABA_a$ receptors.

168. The method of Claim 167 wherein the cell is recombinantly expresses a heterologous $GABA_A$ receptor and the alteration of the electrophysiology of the cell is detected by intracellular recording or patch clamp recording.

169. The method of Claim 167 wherein the cell is a neuronal cell that is contacted in vivo in an animal, the cell is contacted with the compound or salt dissolved in a body fluid, and the alteration in the electrophysiology of the cell is detected as a change in the animal's behavior.

170. The method of Claim 169 wherein the animal is a human, the neuronal cell is a brain cell, and the body fluid is cerebrospinal fluid.

171. A method for altering the signal-transducing activity of a $GABA_A$ receptor, the method comprising exposing a cell expressing the $GABA_A$ receptor to an amount of a compound or salt according to Claim 1 sufficient to inhibit RO15-1788 binding *in vitro* to cells expressing a human $GABA_A$ receptor.

172. A method for the treatment of anxiety, depression, a sleep disorder, schizophrenia, attention deficit-hyperactivity

disorder, or for the enhancement of memory, comprising administering an effective amount of a compound or salt of Claim 1 to a patient.

173. A method for demonstrating the presence of a $GABA_A$ receptor in a cell or tissue sample, said method comprising:

contacting a cell or tissue sample with a labeled compound or salt according to Claim 1;

washing the cell or tissue sample to remove unbound labeled compound or salt; and

detecting the presence of labeled compound or salt in the cell or tissue sample.

174. The method of Claim 173 in which the cell or tissue sample is a tissue section.

175. The method of Claim 173 in which the labeled compound or salt contains a radioactive label or a directly or indirectly luminescent label.

176. The method of Claim 173 in which the cell or tissue sample is a tissue section, labeled compound or salt contains a radioactive label or a directly or indirectly luminescent label, and the labeled compound or salt is detected autoradiographically to generate an autoradiogram.

177. A method for demonstrating the presence of a $GABA_A$ receptor in a tissue section comprising:

contacting the tissue section with a radiolabeled or luminescently labeled compound or salt according to Claim 1 to yield a contacted tissue section;

washing the tissue section to remove unbound labeled compound or salt;

detecting the labeled compound or salt in the tissue section; and

comparing the exposure density of the tissue section with the exposure density of a second tissue section that has not been contacted with a compound or salt according to Claim 1.

178. A package comprising a pharmaceutical composition of claim 165 in a container and further comprising at least one of:

instructions for using the composition to treat a patient suffering from an anxiety disorder, or

instructions for using the composition to treat a patient suffering from depression, or

instructions for using the composition to treat a patient suffering from a sleeping disorder,

instructions for using the composition to treat a patient suffering from schizophrenia, or

instructions for using the composition to treat a patient suffering from attention deficit-hyperactivity disorder.

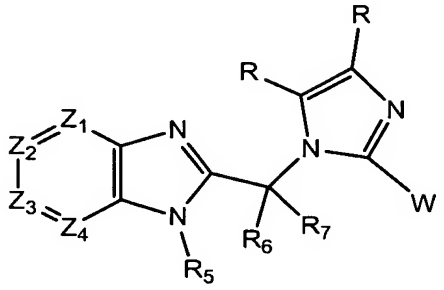
179. A package comprising a pharmaceutical composition of claim 165 in a container and further comprising indicia comprising at least one of: instructions for using the composition to treat a patient suffering from Alzheimer's dementia or instructions for using the composition to enhance memory in a patient.

180. The use of a compound or salt according to Claim 1 for the manufacture of a medicament.

181. The use of a compound or salt according to Claim 1 for the treatment of anxiety, depression, a sleep disorder, schizophrenia, or attention deficit-hyperactivity disorder.

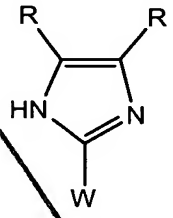
182. The use of a compound or salt according to Claim 1 for the enhancement of memory.

183. A process for preparing a compound of Formula A



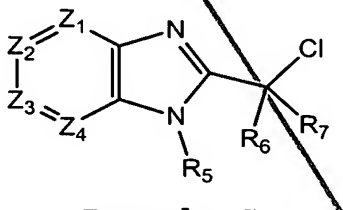
Formula A

comprising reacting a compound of Formula B



Formula B

with a compound of Formula C



Formula C

wherein:

Z_1 is nitrogen or CR_1;

Z_2 is nitrogen or CR_2;

Z_3 is nitrogen or CR_3;

Z_4 is nitrogen or CR_4;

provided that no more than two of Z_1, Z_2, Z_3, and Z_4 are nitrogen;

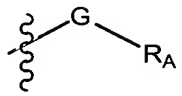
R_1, R_2, R_3, and R_4 are independently selected from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, haloalkyl, and haloalkoxy,

ii) alkyl, alkoxy, cycloalkyl, alkenyl, alkynyl, (cycloalkyl)alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), hydroxyalkyl, aminoalkyl, (R_{10})NHalkyl, (R_{10})(R_{11})Nalkyl, alkanoyl, alkoxycarbonyl, (heterocycloalkyl)alkyl, alkylsulfonyl, alkylthio, mono- or dialkylaminocarbonyl, heterocycloalkyl, aryl, and heteroaryl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20},

wherein R_{10} and R_{11} are independently selected from the group consisting of alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, (cycloalkyl)alkyl, aryl, arylalkyl, alkanoyl, and mono and dialkylaminoalkyl; and

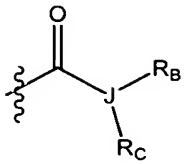
iii) a group of the formula:



where G is a bond, alkyl, -O-, -C(=O)-, or -CH_2C(=O)-, and

R_A is a saturated, partially unsaturated, or aromatic carbocycle, consisting of 1 ring or 2 fused, pendant, or spiro rings, each ring containing 0, 1, or 2 heteroatoms independently chosen from N, S, and O, said saturated, partially unsaturated, or aromatic carbocycle is optionally substituted with 1, 2, 3, or 4 of R_{20}, and

iv) a group of the formula



where J is N, CH, or C-alkyl, and

R_B and R_C are independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkynyl, alkoxy, cycloalkyl, (cycloalkyl)alkyl, heterocycloalkyl, aryl, arylalkyl, alkanoyl, heteroaryl, and mono and dialkylaminoalkyl,

each of which is optionally substituted by 1 or 2 substituents independently chosen from halogen, hydroxy, cyano, amino, nitro, alkoxy, and alkyl;

R_B and R_C and the atom to which they are attached form a 4- to 10-membered monocyclic or bicyclic ring, which may contain:

a) one or more double bonds,

b) one or more of oxo, O, S, SO, SO_2, or N-R_D wherein R_D is hydrogen, Ar_1, alkyl, cycloalkyl, heterocycloalkyl, or Ar_1alkyl; wherein Ar_1 is aryl or heteroaryl, each of which is optionally substituted by 1 or 2 substituents independently chosen from halogen, hydroxy, cyano, amino, nitro, alkoxy, and alkyl, and/or

c) one or more substituents R_{20};

v) $-OC(=O)R_E$, $-C(=O)OR_E$, $-C(=O)NH_2$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-S(O)_nR_E$, $-S(O)_nNH_2$, $-S(O)_nNHR_E$, $-S(O)_nNR_ER_F$, $-NHC(=O)R_E$, $-C(=NR_E)R_F$, $-HC=N-OH$, $-HC=N(alkoxy)$, $-HC=N(alkyl)$, $-NR_EC(=O)R_F$, $-NHS(O)_mR_E$, and $-NR_ES(O)_mR_F$, where m is 0, 1 or 2, and

R_E and R_F are independently selected at each occurrence from alkyl, cycloalkyl, heterocycloalkyl, alkoxy, mono- or dialkylamino, aryl, or heteroaryl each of which is optionally substituted by 1, 2, or 3 of R_{30};

R_{20} is independently selected at each occurrence from the group consisting of: halogen; hydroxy; nitro; cyano; amino; alkyl; alkoxy optionally substituted with amino or mono- or dialkylamino; cycloalkyl; cycloalkylalkyl; cycloalkylalkoxy; alkenyl; alkynyl; haloalkyl; oxo; haloalkoxy; mono- and dialkylamino; aminoalkyl; and mono- and dialkylaminoalkyl;

R_{30} is independently selected at each occurrence from halogen, hydroxy, nitro, cyano, amino, alkyl, alkoxy optionally substituted with amino or mono- or dialkylamino, cycloalkyl, cycloalkylalkyl, cycloalkylalkoxy, heterocycloalkyl, alkenyl, alkynyl, haloalkyl, haloalkoxy, oxo, mono- and dialkylamino, aminoalkyl, and mono- and dialkylaminoalkyl;

R_5 represents hydrogen or haloalkyl; or

R_5 represents alkyl, cycloalkyl, or (cycloalkyl)alkyl, each of which may contain one or more double or triple bonds, and each of which is optionally substituted with 1, 2, or 3 of R_{30}, or

R_5 represents aryl, arylalkyl, heteroaryl, or heteroarylalkyl each of which is optionally substituted with 1, 2, or 3 substituents selected from the group consisting of haloalkyl, amino, $-NH(R_{10})$, $-N(R_{10})(R_{11})$, carboxamido, $(R_{10})NHcarbonyl$, $(R_{10})(R_{11})Ncarbonyl$, halogen, hydroxy, nitro, cyano, amino, alkyl, alkoxy optionally substituted with amino or mono- or dialkylamino, cycloalkyl, cycloalkylalkyl, cycloalkylalkoxy, heterocycloalkyl, alkenyl, alkynyl, haloalkyl, haloalkoxy, aminoalkyl, and mono- and dialkylaminoalkyl;

R_6 and R_7 independently represent hydrogen, fluorine, or alkyl;

R is independently chosen at each occurrence from hydrogen, halogen, amino, C_1-C_6alkyl, $(C_2$-$C_6)$alkenyl, $(C_2$-$C_6)$alkynyl, C_1-C_6alkoxy, $(C_3$-$C_8)$cycloalkyl, $(C_3$-C_8cycloalkyl)$(C_1$-$C_4)$alkyl, halo$(C_1$-$C_6)$alkyl, haloalkoxy, carboxamido, and 3- to 7-membered carbocyclic or heterocyclic groups which are saturated, unsaturated, or aromatic, which may be further substituted with one or more substituents independently selected from halogen, oxo, hydroxy, C_{1-4}alkyl, and $-O(C_{1-4}$alkyl); and

W represents aryl or heteroaryl, wherein the aryl or heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, and $-S(O)_mR_E$, $-OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

184. A process according to Claim 183, wherein:

Z_1 is CR_1, Z_2 is CR_2, Z_3 is CR_3, and Z_4 is CR_4,

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;

R_1, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents (C_1-C_6)alkyl;

R_6 and R_7 are hydrogen; and

W represents phenyl, furanyl, thienyl, thiazolyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, isoxazolyl, pyrimidinyl, benzimidazolyl, quinolinyl, isoquinolinyl each of which is optionally substituted with up to 4 R_{30} groups.

185. A process according to Claim 184, wherein W is 2-thiazolyl, 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

186. A process according to Claim 184, wherein R, R_1, and R_4 are hydrogen.

187. A process according to Claim 184, wherein R_5 is ethyl or n-propyl.

188. A process according to Claim 184 wherein

R_2 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, $(C_3-C_8$cycloalkyl$)$ C_1-C_4alkyl, $-NH(R_{10})$, $-N(R_{10})(R_{11})$, $(R_{10})NH(C_1-C_6)$alkyl, $(R_{10})(R_{11})N(C_1-C_6)$alkyl,

(heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20}.

189. A process according to Claim 183 wherein

Z_1 is CR_1;

one and only one of Z_2 or Z_3 is nitrogen;

Z_4 is CR_4; and

R_2 or R_3 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl) C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20};

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;

R_1 and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents (C_1-C_6)alkyl;

R_6 and R_7 are hydrogen;

W represents a 5-membered heteroaryl group, the 5-membered heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, -CO_2H, -C(=O)OR_E, -C(=O)NHR_E, -C(=O)NR_ER_F, -C(O)R_E, and -S(O)$_m$$R_E$, -$OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

190. A process according to Claim 189, wherein Z_3 is nitrogen.

191. A process according to Claim 189 wherein R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and W is thiazolyl, thienyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, or isoxazolyl, each of which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

192. A process according to Claim 191, wherein W is 2-thiazolyl.

193. A compound or salt according to Claim 191, wherein R, R_1 and R_4 are hydrogen.

194. A compound or salt according to Claim 191, wherein R_5 is ethyl or n-propyl.

195. A process according to Claim 189, wherein Z_2 is nitrogen.

196. A process according to Claim 195 wherein R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and W is thiazolyl, thienyl, imidazolyl, oxazolyl, triazolyl, tetrazolyl, pyrazolyl, or isoxazolyl, each of which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

197. A process according to Claim 196, wherein W is 2-thiazolyl.

198. A compound or salt according to Claim 196, wherein R, R_1 and R_4 are hydrogen.

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199. A compound or salt according to Claim 196, wherein R_5 is ethyl or n-propyl.

200. A process according to Claim 183 wherein

Z_1 is CR_1;

one and only one of Z_2 or Z_3 is nitrogen;

Z_4 is CR_4;

R_2 or R_3 is chosen from

i) hydrogen, halogen, hydroxy, nitro, cyano, amino, halo(C_1-C_6)alkyl, and halo(C_1-C_6)alkoxy,

ii) C_1-C_6alkyl, C_1-C_6alkoxy, C_3-C_8cycloalkyl, C_2-C_6alkenyl, C_2-C_6alkynyl, (C_3-C_8cycloalkyl) C_1-C_4alkyl, -NH(R_{10}), -N(R_{10})(R_{11}), (R_{10})NH(C_1-C_6)alkyl, (R_{10})(R_{11})N(C_1-C_6)alkyl, (heterocycloalkyl)C_1-C_4alkyl, and heterocycloalkyl, each of which is optionally substituted with 1, 2, 3, or 4 of R_{20};

R is independently selected at each occurrence from the group consisting of hydrogen, halogen, and (C_1-C_2)alkyl;

R_1, R_3, and R_4 are independently selected from hydrogen, halogen, hydroxy, nitro, cyano, amino, (C_1-C_6)alkyl, (C_1-C_6)alkoxy, (C_3-C_8)cycloalkyl, (C_3-C_8)cycloalkyl(C_1-C_6)alkyl, halo(C_1-C_6)alkyl, halo(C_1-C_6)alkoxy, mono or di(C_1-C_6)alkylamino, amino(C_1-C_6)alkyl, and mono- and di(C_1-C_6)alkylamino(C_1-C_6)alkyl;

R_5 represents (C_1-C_6)alkyl;

R_6 and R_7 are hydrogen; and

W represents a 6-membered aryl or heteroaryl group, wherein the 6-membered aryl or heteroaryl group is optionally substituted with up to 4 groups independently selected from R_{30}, $-CO_2H$, $-C(=O)OR_E$, $-C(=O)NHR_E$, $-C(=O)NR_ER_F$, $-C(O)R_E$, and -

$S(O)_mR_E$, $-OR_E$, where R_{30} and R_E are as defined above and m is 0, 1, or 2.

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201. A process according to Claim 200, wherein Z_3 is nitrogen.

202. A process according to Claim 201 wherein R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and W is phenyl, pyrimidinyl, pyridyl, pyrazinyl, or pyridizinyl, each of which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

203. A process according to Claim 202, wherein W is 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

204. A compound or salt according to Claim 202, wherein R, R_1 and R_4 are hydrogen.

205. A compound or salt according to Claim 202, wherein R_5 is ethyl or n-propyl.

206. A process according to Claim 200, wherein Z_2 is nitrogen.

207. A process according to Claim 206 wherein R_1 and R_4 are independently selected from hydrogen, halogen, trifluoromethyl, C_1-C_2 alkyl, and cyano; and W is phenyl, pyrimidinyl, pyridyl, pyrazinyl, or pyridizinyl, each of which is optionally substituted by one or more substituents independently chosen from halogen, cyano, hydroxy, oxo, C_1-C_2haloalkyl, C_1-C_2alkyl, and C_1-C_2 alkoxy.

208. A process according to Claim 207, wherein W is 2-pyrimidinyl, 3-fluorophenyl, or 6-fluoro-2-pyridinyl.

209. A compound or salt according to Claim 207, wherein R, R_1 and R_4 are hydrogen.

210. A compound or salt according to Claim 207, wherein R_5 is ethyl or n-propyl.